

2

OIPE

RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/017,724

DATE: 01/15/2002

TIME: 18:08:11

Input Set : A:\Seqlist.txt

Output Set: N:\CRF3\01152002\J017724.raw

P.5

3 <110> APPLICANT: McCarthy, Jeanette
5 <120> TITLE OF INVENTION: DIAGNOSIS AND TREATMENT OF VASCULAR DISEASE
7 <130> FILE REFERENCE: MMI-004
C--> 9 <140> CURRENT APPLICATION NUMBER: US/10/017,724
C--> 9 <141> CURRENT FILING DATE: 2001-12-14
9 <150> PRIOR APPLICATION NUMBER: US 60/317,178
10 <151> PRIOR FILING DATE: 2001-09-05
12 <150> PRIOR APPLICATION NUMBER: US 60/329,958
13 <151> PRIOR FILING DATE: 2001-10-16
15 <160> NUMBER OF SEQ ID NOS: 11
17 <170> SOFTWARE: FastSEQ for Windows Version 4.0
19 <210> SEQ ID NO: 1
20 <211> LENGTH: 5784
21 <212> TYPE: DNA
22 <213> ORGANISM: Homo Sapiens
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27 ctgcagggcc ggtctctcgc tccagcagag cctcgccctt tctgactcgg tccggaacac 180
28 tgaaccagt catcactgca tctttttggc aaaccaggag ctgagctgca ggaggcagga 240
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39 acttcagggg ttgtcttcag aacgtccacc tagtgtttga aaactctgtg gaagatattc 900
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42 ggaggcccga ggtgtgcgaa cgctcgtgcg aggagctggg aaacatggtc caggagctct 1080
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ENTERED

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Input Set : A:\Seqlist.txt

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58 tcttgggcaa tggcaccacac tgtgaggacc tggacgagt tgccctggtc cccgacatct 2040
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61 cggaaaagca agtgtgtgag cccgaaaacc catgcaagga caagacacac aactgccaca 2220
62 agcacgcgga gtgcatctac ctgggtcact tcagcgaccc catgtacaag tgcgagtgcc 2280
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66 atgatgacga tgacaatgac ggtgtgaccg atgagaagga caactgccag ctccctctca 2520
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73 acgccaacca ggctgaccat gacagagacg gccagggcga ccctgtgac cctgatgatg 2940
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101 ccgttgtggc gtcggggagg ctccctgctg agcttcttcc cccagctttg ctgcctgaga 4620
102 ggaaccagag cagacgcaca ggccggaaaa ggcgcatcta acgcgtatct aggttttggg 4680
103 aactgcggac aagttgcttt tacctgattt gatgatacat ttcattaagg ttccagttat 4740
104 aaatatattg ttaatatatta ttaagtgact atagaatgca actccattta ccagtaactt 4800

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107 tagaagctgt aacagaatac atagagaata atgaggagtt tatgatggaa ccttaataata 4980
108 taatgttgcc agcgatttta gttcaatatt tgttactggt atctatctgc tgtatatgga 5040
109 attcttttaa ttcaaagcgt gaaaacgaat cagcatttag tcttgccagg cacaccaaat 5100
110 aatcagtcac gtgtaatatg cacaagtttg tttttgtttt tgtttttttt gttggttggt 5160
111 ttttttgctt taagttgcat gatctttctg caggaaatag tcactcatcc cactccacat 5220
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118 gtaccatatt tttgttaaatt tatttatggt tttctaaaca aatttatcgt ataggttgat 5640
119 gaaacgcat gtgttttgcc aaagactgta aatatttatt tatgtgttca catgggcaaaa 5700
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121 aataaattgt aaaaaagggt ttct 5784
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123 <210> SEQ ID NO: 2

124 <211> LENGTH: 1172

125 <212> TYPE: PRT

126 <213> ORGANISM: Homo Sapiens

128 <400> SEQUENCE: 2

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129 Met Val Trp Arg Leu Val Leu Leu Ala Leu Trp Val Trp Pro Ser Thr
130 1 5 10 15
131 Gln Ala Gly His Gln Asp Lys Asp Thr Thr Phe Asp Leu Phe Ser Ile
132 20 25 30
133 Ser Asn Ile Asn Arg Lys Thr Ile Gly Ala Lys Gln Phe Arg Gly Pro
134 35 40 45
135 Asp Pro Gly Val Pro Ala Tyr Arg Phe Val Arg Phe Asp Tyr Ile Pro
136 50 55 60
137 Pro Val Asn Ala Asp Asp Leu Ser Lys Ile Thr Lys Ile Met Arg Gln
138 65 70 75 80
139 Lys Glu Gly Phe Phe Leu Thr Ala Gln Leu Lys Gln Asp Gly Lys Ser
140 85 90 95
141 Arg Gly Thr Leu Leu Ala Leu Glu Gly Pro Gly Leu Ser Gln Arg Gln
142 100 105 110
143 Phe Glu Ile Val Ser Asn Gly Pro Ala Asp Thr Leu Asp Leu Thr Tyr
144 115 120 125
145 Trp Ile Asp Gly Thr Arg His Val Val Ser Leu Glu Asp Val Gly Leu
146 130 135 140
147 Ala Asp Ser Gln Trp Lys Asn Val Thr Val Gln Val Ala Gly Glu Thr
148 145 150 155 160
149 Tyr Ser Leu His Val Gly Cys Asp Leu Ile Gly Pro Val Ala Leu Asp
150 165 170 175
151 Glu Pro Phe Tyr Glu His Leu Gln Ala Glu Lys Ser Arg Met Tyr Val
152 180 185 190
153 Ala Lys Gly Ser Ala Arg Glu Ser His Phe Arg Gly Leu Leu Gln Asn
154 195 200 205
155 Val His Leu Val Phe Glu Asn Ser Val Glu Asp Ile Leu Ser Lys Lys
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156	210	215	220
157 Gly Cys Gln Gln Gly Gln Gly Ala Glu Ile Asn Ala Ile Ser Glu Asn			
158 225	230	235	240
159 Thr Glu Thr Leu Arg Leu Gly Pro His Val Thr Thr Glu Tyr Val Gly			
160	245	250	255
161 Pro Ser Ser Glu Arg Arg Pro Glu Val Cys Glu Arg Ser Cys Glu Glu			
162	260	265	270
163 Leu Gly Asn Met Val Gln Glu Leu Ser Gly Leu His Val Leu Val Asn			
164	275	280	285
165 Gln Leu Ser Glu Asn Leu Lys Arg Val Ser Asn Asp Asn Gln Phe Leu			
166	290	295	300
167 Trp Glu Leu Ile Gly Gly Pro Pro Lys Thr Arg Asn Met Ser Ala Cys			
168 305	310	315	320
169 Trp Gln Asp Gly Arg Phe Phe Ala Glu Asn Glu Thr Trp Val Val Asp			
170	325	330	335
171 Ser Cys Thr Thr Cys Thr Cys Lys Lys Phe Lys Thr Ile Cys His Gln			
172	340	345	350
173 Ile Thr Cys Pro Pro Ala Thr Cys Ala Ser Pro Ser Phe Val Glu Gly			
174	355	360	365
175 Glu Cys Cys Pro Ser Cys Leu His Ser Val Asp Gly Glu Glu Gly Trp			
176	370	375	380
177 Ser Pro Trp Ala Glu Trp Thr Gln Cys Ser Val Thr Cys Gly Ser Gly			
178 385	390	395	400
179 Thr Gln Gln Arg Gly Arg Ser Cys Asp Val Thr Ser Asn Thr Cys Leu			
180	405	410	415
181 Gly Pro Ser Ile Gln Thr Arg Ala Cys Ser Leu Ser Lys Cys Asp Thr			
182	420	425	430
183 Arg Ile Arg Gln Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser			
184	435	440	445
185 Cys Ser Val Thr Cys Gly Val Gly Asn Ile Thr Arg Ile Arg Leu Cys			
186	450	455	460
187 Asn Ser Pro Val Pro Gln Met Gly Gly Lys Asn Cys Lys Gly Ser Gly			
188 465	470	475	480
189 Arg Glu Thr Lys Ala Cys Gln Gly Ala Pro Cys Pro Ile Asp Gly Arg			
190	485	490	495
191 Trp Ser Pro Trp Ser Pro Trp Ser Ala Cys Thr Val Thr Cys Ala Gly			
192	500	505	510
193 Gly Ile Arg Glu Arg Thr Arg Val Cys Asn Ser Pro Glu Pro Gln Tyr			
194	515	520	525
195 Gly Gly Lys Ala Cys Val Gly Asp Val Gln Glu Arg Gln Met Cys Asn			
196	530	535	540
197 Lys Arg Ser Cys Pro Val Asp Gly Cys Leu Ser Asn Pro Cys Phe Pro			
198 545	550	555	560
199 Gly Ala Gln Cys Ser Ser Phe Pro Asp Gly Ser Trp Ser Cys Gly Phe			
200	565	570	575
201 Cys Pro Val Gly Phe Leu Gly Asn Gly Thr His Cys Glu Asp Leu Asp			
202	580	585	590
203 Glu Cys Ala Leu Val Pro Asp Ile Cys Phe Ser Thr Ser Lys Val Pro			
204	595	600	605

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```

205 Arg Cys Val Asn Thr Gln Pro Gly Phe His Cys Leu Pro Cys Pro Pro
206      610                      615                      620
207 Arg Tyr Arg Gly Asn Gln Pro Val Gly Val Gly Leu Glu Ala Ala Lys
208 625                      630                      635                      640
209 Thr Glu Lys Gln Val Cys Glu Pro Glu Asn Pro Cys Lys Asp Lys Thr
210                      645                      650                      655
211 His Asn Cys His Lys His Ala Glu Cys Ile Tyr Leu Gly His Phe Ser
212                      660                      665                      670
213 Asp Pro Met Tyr Lys Cys Glu Cys Gln Thr Gly Tyr Ala Gly Asp Gly
214                      675                      680                      685
215 Leu Ile Cys Gly Glu Asp Ser Asp Leu Asp Gly Trp Pro Asn Leu Asn
216      690                      695                      700
217 Leu Val Cys Ala Thr Asn Ala Thr Tyr His Cys Ile Lys Asp Asn Cys
218 705                      710                      715                      720
219 Pro His Leu Pro Asn Ser Gly Gln Glu Asp Phe Asp Lys Asp Gly Ile
220                      725                      730                      735
221 Gly Asp Ala Cys Asp Asp Asp Asp Asp Asn Asp Gly Val Thr Asp Glu
222                      740                      745                      750
223 Lys Asp Asn Cys Gln Leu Leu Phe Asn Pro Arg Gln Ala Asp Tyr Asp
224                      755                      760                      765
225 Lys Asp Glu Val Gly Asp Arg Cys Asp Asn Cys Pro Tyr Val His Asn
226      770                      775                      780
227 Pro Ala Gln Ile Asp Thr Asp Asn Asn Gly Glu Gly Asp Ala Cys Ser
228 785                      790                      795                      800
229 Val Asp Ile Asp Gly Asp Asp Val Phe Asn Glu Arg Asp Asn Cys Pro
230                      805                      810                      815
231 Tyr Val Tyr Asn Thr Asp Gln Arg Asp Thr Asp Gly Asp Gly Val Gly
232                      820                      825                      830
233 Asp His Cys Asp Asn Cys Pro Leu Val His Asn Pro Asp Gln Thr Asp
234                      835                      840                      845
235 Val Asp Asn Asp Leu Val Gly Asp Gln Cys Asp Asn Asn Glu Asp Ile
236      850                      855                      860
237 Asp Asp Asp Gly His Gln Asn Asn Gln Asp Asn Cys Pro Tyr Ile Ser
238 865                      870                      875                      880
239 Asn Ala Asn Gln Ala Asp His Asp Arg Asp Gly Gln Gly Asp Ala Cys
240                      885                      890                      895
241 Asp Pro Asp Asp Asp Asn Asp Gly Val Pro Asp Asp Arg Asp Asn Cys
242                      900                      905                      910
243 Arg Leu Val Phe Asn Pro Asp Gln Glu Asp Leu Asp Gly Asp Gly Arg
244      915                      920                      925
245 Gly Asp Ile Cys Lys Asp Asp Phe Asp Asn Asp Asn Ile Pro Asp Ile
246      930                      935                      940
247 Asp Asp Val Cys Pro Glu Asn Asn Ala Ile Ser Glu Thr Asp Phe Arg
248 945                      950                      955                      960
249 Asn Phe Gln Met Val Pro Leu Asp Pro Lys Gly Thr Thr Gln Ile Asp
250                      965                      970                      975
251 Pro Asn Trp Val Ile Arg His Gln Gly Lys Glu Leu Val Gln Thr Ala
252                      980                      985                      990
253 Asn Ser Asp Pro Gly Ile Ala Val Gly Phe Asp Glu Phe Gly Ser Val

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Use of n and/or Xaa has been detected in the Sequence Listing.
 Review the Sequence Listing to insure a corresponding
 explanation is presented in the <220> to <223> fields of
 each sequence using n or Xaa.

VERIFICATION SUMMARY

DATE: 01/15/2002

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TIME: 18:08:12

Input Set :: A:\Seqlist.txt

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L:9 M:270 C: Current Application Number differs, Replaced Current Application No

L:9 M:271 C: Current Filing Date differs, Replaced Current Filing Date

L:290 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:292 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:315 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:317 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:318 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:319 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:320 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:330 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:337 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:338 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:351 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:352 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:361 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:366 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:382 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:404 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:413 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:868 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:877 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

L:891 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:893 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3

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L:960 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:961 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:962 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:969 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3